

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number  
WO 2005/044153 A1

(51) International Patent Classification<sup>7</sup>:

A61F 2/46

(21) International Application Number:

PCT/IB2004/003676

(22) International Filing Date:

10 November 2004 (10.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/518,768	10 November 2003 (10.11.2003)	US
60/548,542	26 February 2004 (26.02.2004)	US
60/561,141	10 April 2004 (10.04.2004)	US

(71) Applicant (for all designated States except US): PRECIMED, S.A. [CH/CH]; 7, L'Echelle, CH-2534 Orvin (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LECHOT, André? [CH/CH]; L'Eaubelle 24, CH-2534 Orvin (CH). DESARZENS, Yves? [CH/CH]; Grand-Rue 12, CH-2606 Corgémont (CH).

(74) Agent: MOETTELI, John; Moetteli & Associés Sàrl, 4, St. Leonhardstrasse, CH-9000 St. Gallen (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

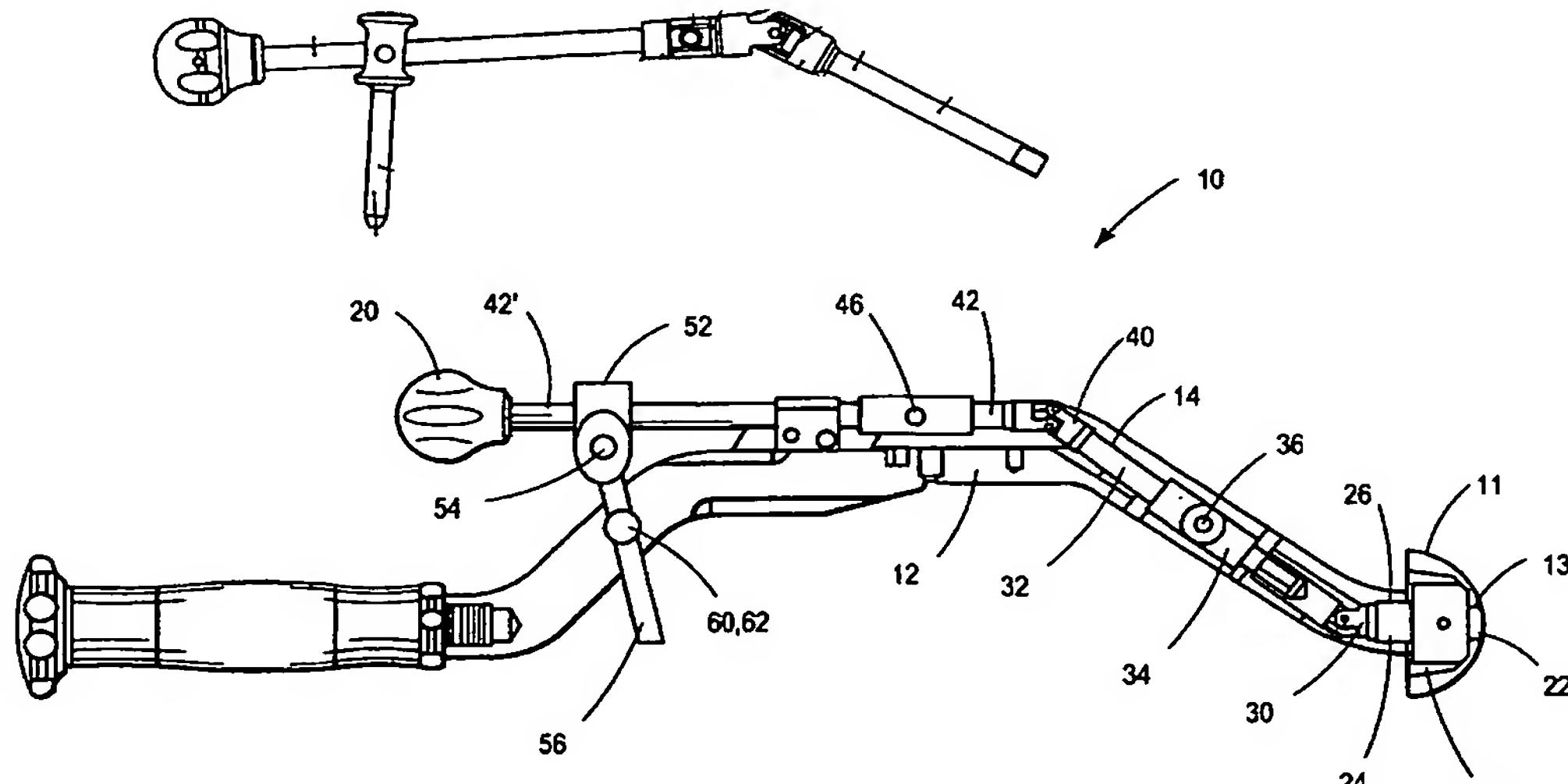
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: INSERTER FOR MINIMALLY INVASIVE JOINT SURGERY



(57) Abstract: An acetabular inserter (10, 10', 10'') aids a surgeon in controlling the installation of an acetabular cup prosthesis (11) having a central, female aperture (13). The inserter includes a head (20), a housing (12, 12', 12'') and a locking mechanism (44, 50, 52, 54, 56, 60, 62, 67, 68; 124, 130, 142, 146; 180, 193, 194, 195, 196, 200, 202, 206, 210, 212, 14). The housing (12, 12', 12'') is attached to the head, the housing enclosing a drive train (14, 14', 14'') having, at a far end (134), a prosthesis engaging thread (124), and at the opposite end (42'), a handle (20, 20', 20'') which facilitates turning of the drive train by the operator. The locking mechanism is associated with the housing which selectively locks the drive train, and thus the prosthesis, in position. The opposite end (42') of the drive train has a latch device (52, 54, 56, 60, 62; 44, 50; 180) which enables quick removal from the housing for cleaning and sterilization.

WO 2005/044153 A1



**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*